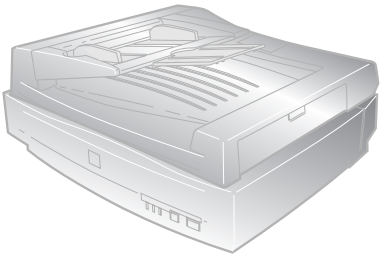
Using Optional Equipment



There are three options available for the EPSON Expression 1640XL color scanner: the transparency unit (B813202), the automatic document feeder (B813212), and the IEEE 1394 FireWire scanner interface card (B808342).

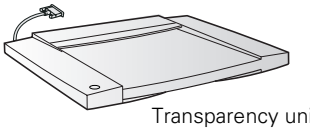
You can purchase these options from your reseller or from the EPSON Store℠ at (800) 873-7766 or www.epsonstore.com (U.S. sales only). In Canada, please call (800) 463-7766 for dealer referral.

Transparency Unit

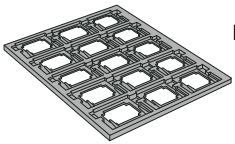
The transparency unit (B813202) allows you to scan transparent materials—35 mm slides, 4 × 5 inch film, and 120/220 film. To switch between scanning transparent materials and normal reflective (paper) documents, simply insert or remove the reflective document mat that came with the unit. For instructions on using the reflective document mat, see “Scanning Reflective Documents” on page 44.

Unpacking the Transparency Unit

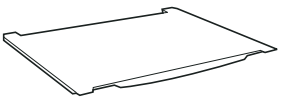
Make sure that all of the following items are included in the transparency unit box. If any items are missing or damaged, contact your EPSON dealer, or contact EPSON at (562) 276-4382 (in the United States) or (905) 709-3839 (in Canada). Keep all the packing materials so you can use them for storage when you are not scanning transparencies.



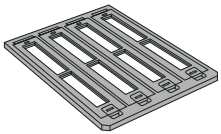
Transparency unit

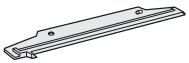


Film holders

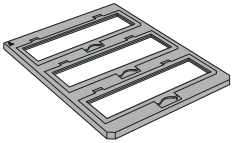


Reflective document mat

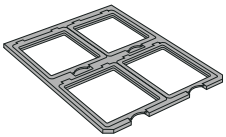




Transparency guide



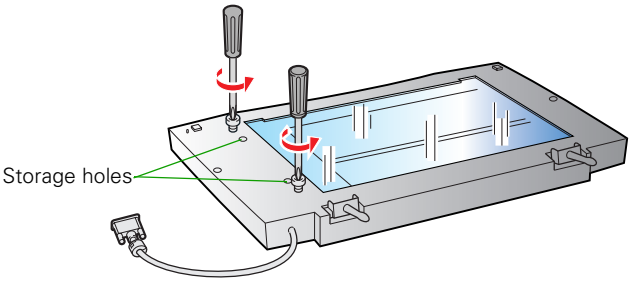
Guide pins and adjust pins



Removing the Shipping Screws

To prevent damage during shipping, two shipping screws are attached to the transparency unit to secure its lamp assembly. You must remove these screws before using the transparency unit.

1. Turn the transparency unit so the glass side faces up.
2. Use a Phillips head (cross head) screwdriver to remove the shipping screws, as shown at right.
3. Install the screws in the storage holes.



CAUTION

If either screw is left in a shipping hole (the outer holes) while using the transparency unit, the unit may be damaged.

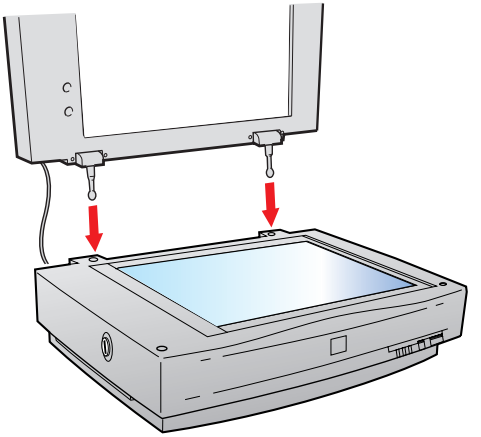
Before transporting the scanner, remove the transparency unit, reinstall the shipping screws, and turn the transportation lock on the side of the scanner to the locked position. See “Transporting the Scanner” on page 55 for instructions.

Installing the Transparency Unit

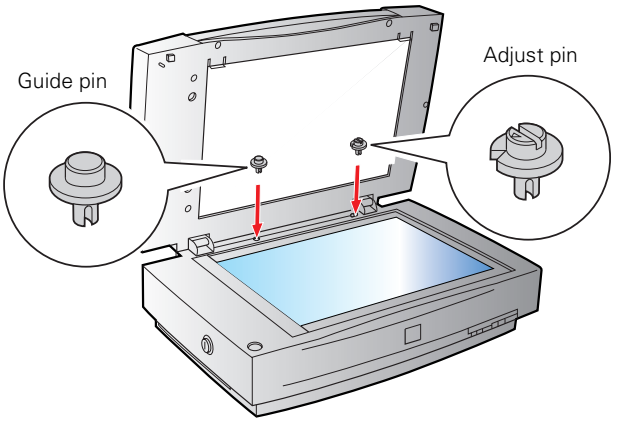
Follow these steps to install the transparency unit on the scanner.

1. Make sure the scanner is turned off. Then unplug the power cable from the scanner.
2. Remove the document cover by grasping the back of the document cover and easing the cover up.
3. Make sure the document table is clean and dust free.

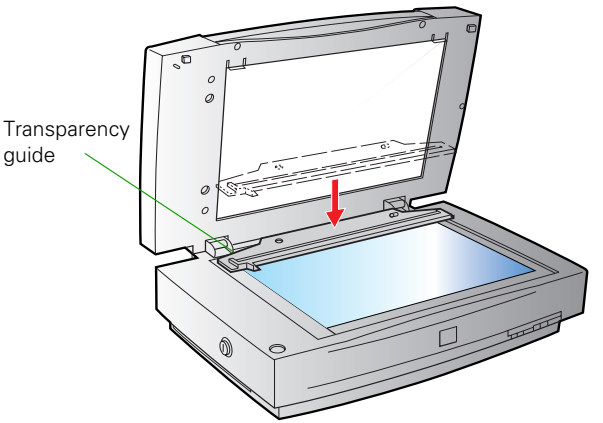
4. Align the transparency unit's pins with the holes in the scanner and lower the unit until it rests securely.



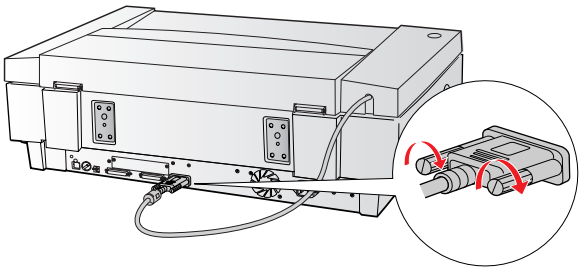
5. Insert the guide pin and adjust pin that came with the transparency unit into the screw holes. Make sure the adjust pin's arrow faces directly towards the center of the guide pin.



6. Place the transparency guide on the scanner's document table.
7. Gently close the transparency unit.



8. Connect the transparency unit's connector to the option (ADF/TPU) connector at the back of the scanner. Tighten the attached screws to secure the connector.



If you haven't connected the scanner to your computer, see the *Start Here* sheet for instructions. Then plug the scanner in and turn it on.

See Chapter 2 for scanning instructions.

Using the Film Guides

You can use the four film guides that came with the scanner to scan 35 mm slides, strips of 35 mm negative or positive film, 120-size or 220-size format film, and 4 × 5-inch film.

NOTE

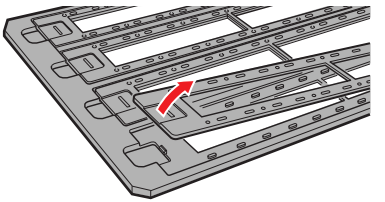
When using the film guides, be sure the transparency unit is completely closed and the calibration area (next to the notch on the transparency guide) is uncovered or an error will occur and you will be unable to scan.

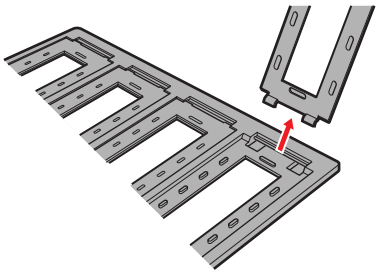
Store the reflective document mat in the transparency unit pocket when not in use.

Loading 35 mm film

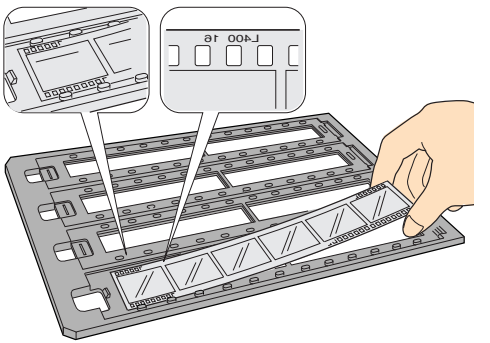
Follow these steps to load 35 mm positive or negative film:

1. Place the 35 mm filmstrip guide on a flat surface and remove the cover from one of the strip holders.

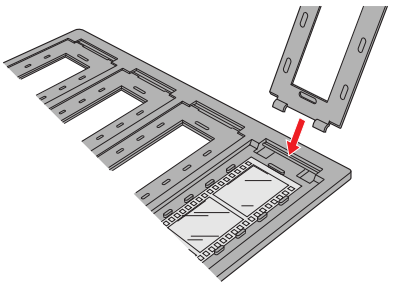




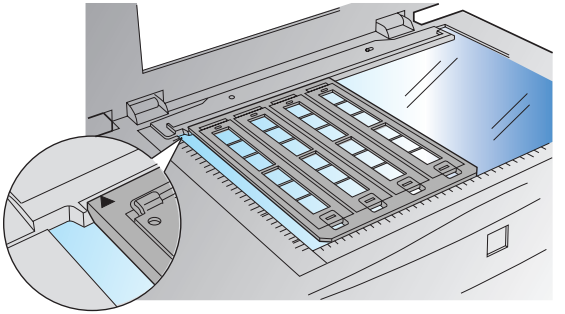
2. Insert a filmstrip in the holder face down.



3. Replace the strip holder you removed in step 1.
4. Repeat steps 1 through 3 for all the film strips you scan.



5. Place the 35 mm filmstrip guide on the document table, and align it with the notch on the transparency guide as shown.
6. Close the TPU and begin scanning.



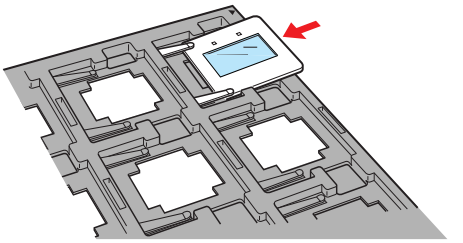
If you're using EPSON Scan, set the following options:

- If you're using Home Mode, select one of the following for the Document Type option: **Positive Film**, **Color Negative Film**, or **B&W Negative Film**.
- If you're using Professional Mode, set the Document Type option to **Transparency**, and then set the Film Type option to **Positive Film**, **Color Negative Film**, or **B&W Negative Film**.

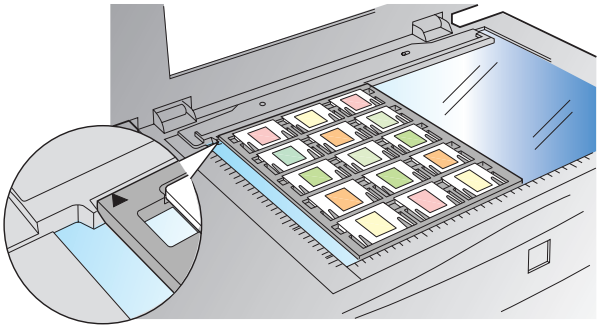
Loading 35 mm slides

Follow these steps to load 35 mm slides:

1. Load slides in the 35 mm slide holder as shown. Make sure the glossy side of each slide faces down, and the film emulsion layer faces up.



2. Position the slide holder on the document table. Align the slide holder with the notch on the transparency guide as shown.
3. Close the TPU and begin your scan.



NOTE

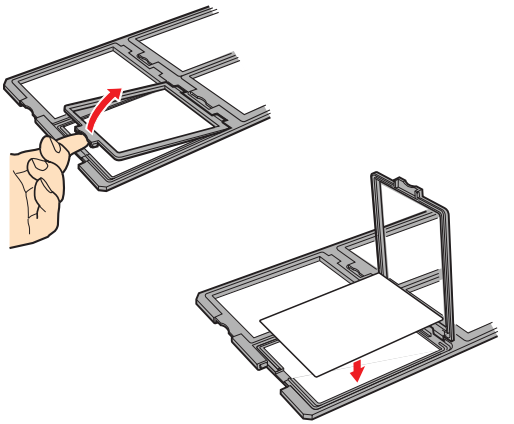
If you're using EPSON Scan to scan, set the following options:

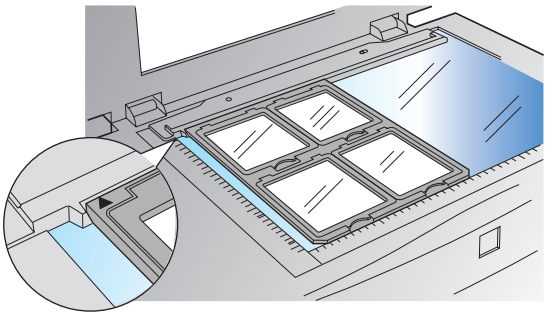
- If you're using Home Mode, set **Positive Film** as the Document Type option.
- If you're using Professional Mode, set the Document Type option to **Transparency**, and then set the Film Type option to **Positive Film**.

Loading 4 × 5-inch film

Follow these steps to load 4 × 5-inch film:

1. Place the 4 × 5-inch film guide on a flat surface and remove the cover from one of the film holders.
2. Insert the film in the film holder, making sure the glossy (smooth) side of the film faces down and the film emulsion layer faces up. Then close the cover.
3. Repeat steps 1 and 2 for all the film you scan.
4. Place the 4 × 5-inch film guide on the document table. Align it with the notch on the transparency guide as shown.
5. Close the TPU and begin your scan.





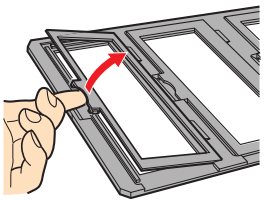
NOTE

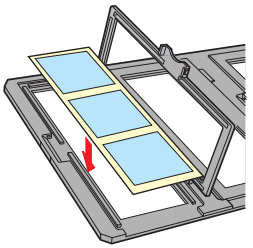
If you're using EPSON Scan, set the following options:

- If you're using Home Mode, select one of the following for the Document Type option: **Positive Film**, **Color Negative Film**, or **B&W Negative Film**.
- If you're using Professional Mode, set the Document Type option to **Transparency**, and then set the Film Type option to **Positive Film**, **Color Negative Film**, or **B&W Negative Film**.

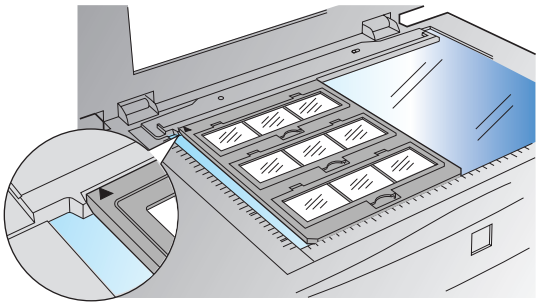
Loading 120-size or 220-size (medium format) film

Follow these steps to load 120-size or 220-size format film:





1. Place the 120/220-size film guide on a flat surface and open the cover for one of the film holders.
2. Insert the film in the film holder, making sure the glossy (smooth) side of the film faces down, and the film emulsion layer faces up. Then close the cover.
3. Repeat steps 1 and 2 for all the film you scan.
4. Place the film guide on the document table. Align it with the notch on the transparency guide as shown.
5. Close the TPU and begin your scan.



NOTE

If you're using EPSON Scan, set the following options:

- If you're using Home Mode, select one of the following for the Document Type option: **Positive Film**, **Color Negative Film**, or **B&W Negative Film**.
- If you're using Professional Mode, set the Document Type option to **Transparency**, and then set the Film Type option to **Positive Film**, **Color Negative Film**, or **B&W Negative Film**.

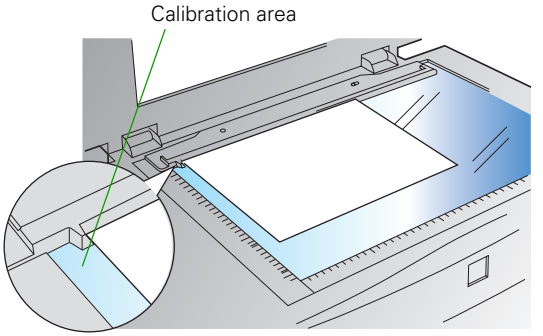
Loading non-standard sized film

Follow these steps to load non-standard sized film:

1. Place the film directly on the document table making sure the glossy (smooth) side of the film faces down.

   If the reflective document mat is installed in the transparency unit, remove it.

2. Close the TPU and begin your scan.



NOTE

If you're using EPSON Scan, set the focus position to 0.0.

An area 2±1.5 mm from the horizontal and vertical edges of the document table glass will not be scanned.

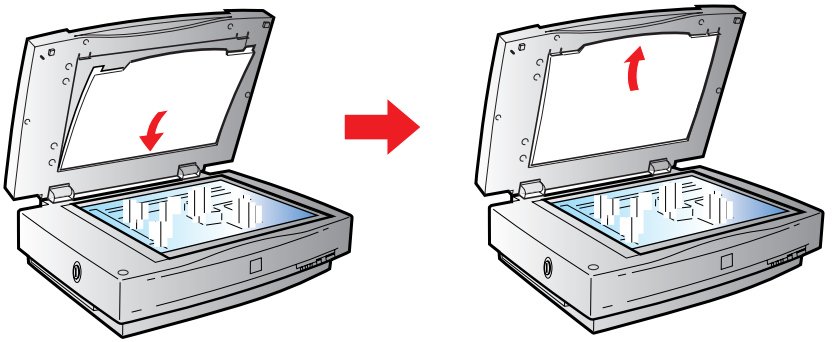
CAUTION

The scanner will generate an error message if the calibration area is blocked. Also, dirt or dust on the calibration area can result in vertical lines being added to the image. Keep the calibration area clear and clean.

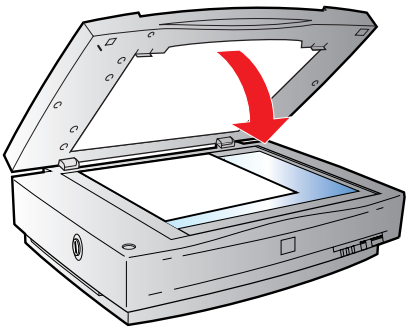
Scanning Reflective Documents

To scan reflective documents with the transparency unit installed, insert the reflective document mat included with the transparency unit.

1. Open the transparency unit. If there's a film guide or transparency unit on the document table, remove it.
2. Slide the mat into place and insert the tabs into the slots on the transparency unit.



3. Place your document face down on the document table and close the transparency unit.

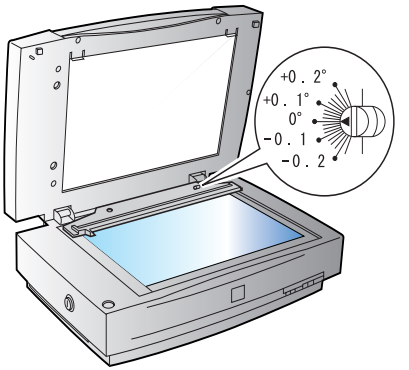


4. Scan your document.

   To remove the reflective document mat, slide it up and out of the slots on the transparency unit.

Adjusting the Transparency Guide Scanning Angle

If your scanned image's edges are at a slight angle, adjust the scanning angle by turning the adjust pin. The direction and degree you adjust the angle depends on your individual scanner and the placement of the document to be scanned. You may want to experiment with this feature to determine the best angle.

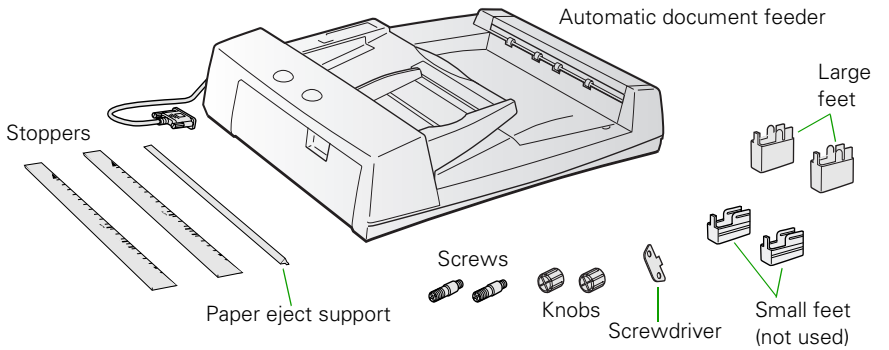


Automatic Document Feeder

The automatic document feeder (B813212) allows you to automatically load multi-page documents into your scanner. This document feeder is particularly useful for OCR (optical character recognition) scanning, or for creating an image database.

Unpacking the Automatic Document Feeder

When you unpack your automatic document feeder, make sure you have the parts shown below. If any items are missing or damaged, contact your EPSON dealer, or call EPSON at (562) 276-4382 (in the United States) or (905) 709-3839 (in Canada).

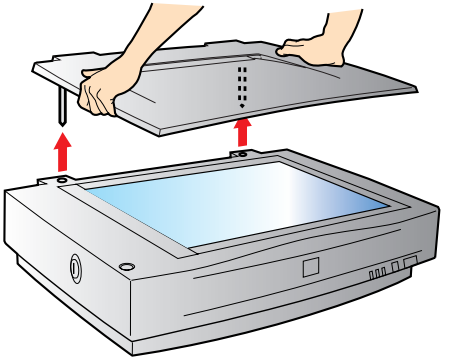


Installing the Automatic Document Feeder

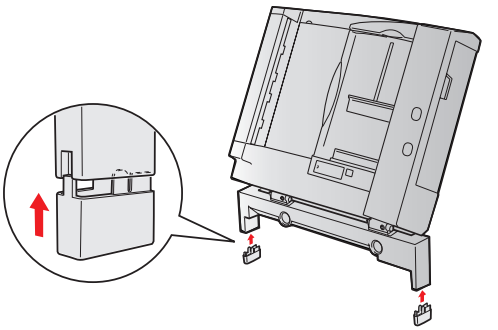
Because the automatic document feeder is heavy, you may want to have someone help you with this procedure. Also, the document feeder is large, so be sure to have adequate space around the scanner.

Follow the steps below to install the automatic document feeder on your scanner:

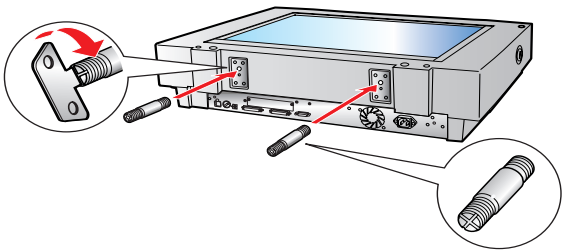
1. Make sure your scanner is turned off and unplug the cables.
2. Remove your scanner's document cover by grasping the back of the cover as shown and easing the cover up.



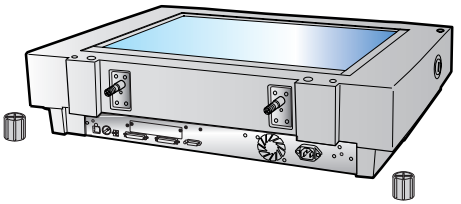
3. Attach the two large feet as shown.



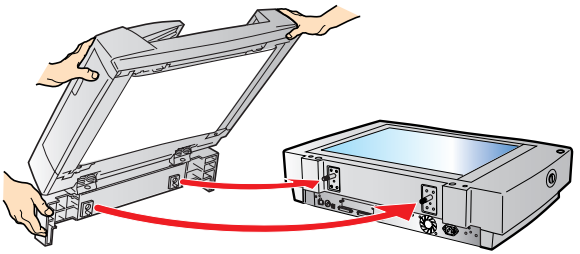
4. Insert the installation screws that came with the ADF into the holes in the back of the scanner and secure them with the enclosed screwdriver tool, as shown.



5. Place the two knobs included with the ADF beside the scanner.

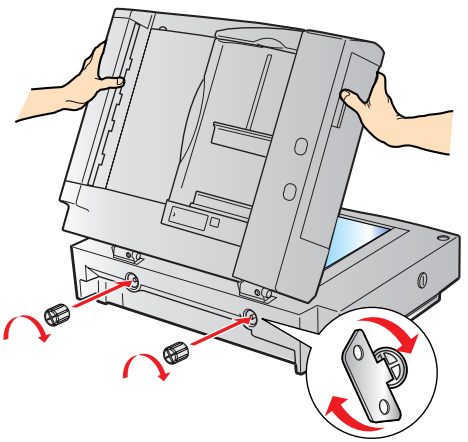


6. Align the installation screws with the holes in the ADF and slide together as shown.

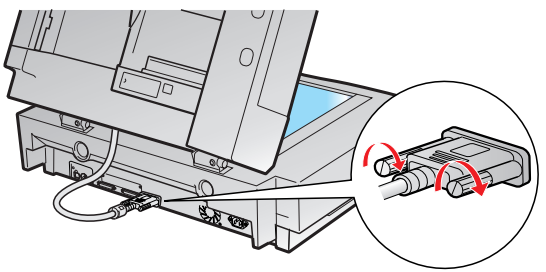


WARNING The ADF is heavy. Ask for assistance when lifting it.

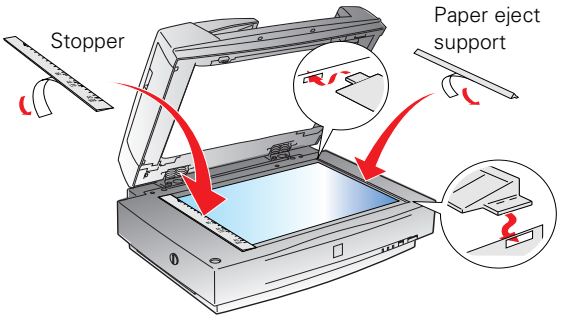
7. Twist the knobs onto the ends of the screws and tighten them using the enclosed screwdriver tool.



8. Attach the ADF's connector to the scanner's option (ADF/TPU) interface. Secure the connection by tightening the connector screws.



9. Peel the backing from the stopper and from the paper eject support provided with the ADF. Then attach the stopper and paper eject support to the scanner as shown. Insert the tabs on the paper eject support into the slots at the right end of the document table.



NOTE There are two stoppers included with the ADF, a light gray one and a dark gray one. Use the light gray stopper, not the dark gray stopper.

10. Close the ADF.

If you haven't connected the scanner to your computer, see the *Start Here* sheet for instructions.

Loading Paper in the Automatic Document Feeder

The ADF can hold up to 100 sheets of the following paper sizes, based on a paper weight of 17 pounds (64 g/m^2) and a thickness of 0.2 inch (6.0 mm) or less:

Paper size	Direction
A3, Ledger, B4, Legal, A4, Letter, B5, A5, 5.5 × 5.8-inch (140 × 148 mm)	Portrait
A4, Letter, B5, A5	Landscape

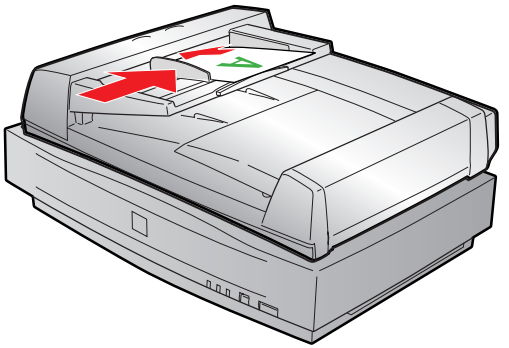
Before loading the ADF, make sure the document:

- Has no wet ink on it.
- Has no holes or no cut-out areas.
- Is not ripped or wrinkled.
- Has no staples or other objects attached that may damage the feeder.
- Has no folds.
- Is not a multipart form.

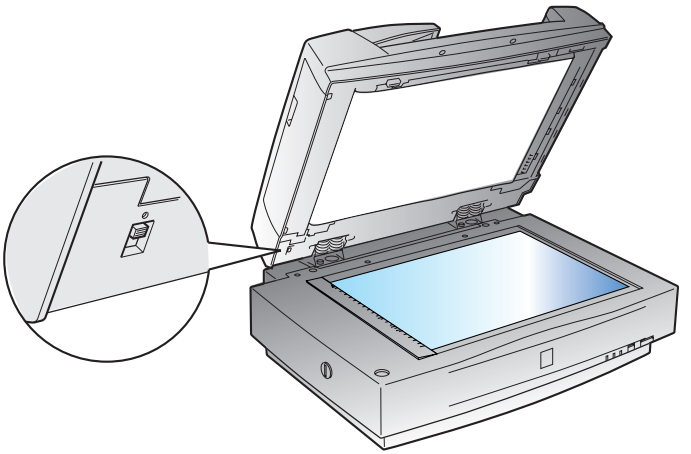
- Is not bound.
- Has no carbon coating.

Follow these steps to load paper:

1. Slide the right edge guides all the way to the right.

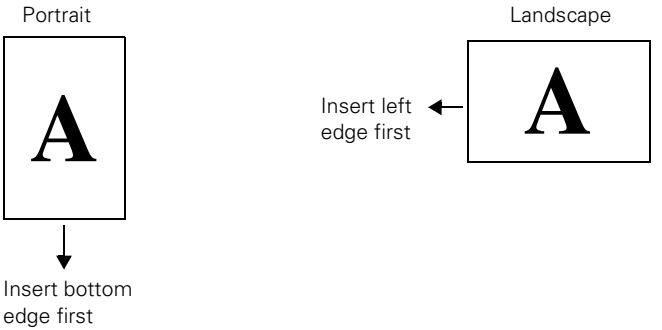


2. Make sure that the switch on the lower left corner of the ADF is set with the switch towards the circular mark as shown.



3. Arrange your stack of originals face up. Follow these guidelines when inserting paper:
   - Portrait orientation (top and bottom edges are shorter than the side edges)—insert your document bottom edge first.
   - Landscape orientation (top and bottom edges are longer than the side edges)—insert your document left edge first.

Insert the document until it meets resistance.



If your document is large, slide out the paper support.

4. Slide the edge guides to the edges of your paper.
5. Scan your document. If you're using EPSON Scan, follow these guidelines:
   - Select either **Office Mode** or **Professional Mode** in the Mode box.
   - Select **ADF** as the Document Source.
   - If you want to scan only part of the document page, load the first page only. Click the **Preview** button. The first page is ejected. Adjust the marquee in the Preview area, then load your entire document. When you click **Scan**, the scanner scans the area defined by the marquee on each page.

If you load multiple pages, they will be fed from the top and ejected face down.

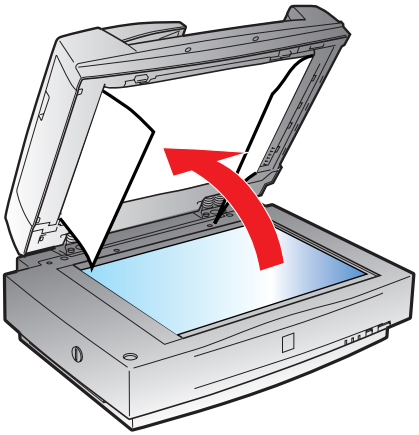
To automatically scan both sides of a document, select the Double-Side setting in EPSON Scan.

You can still load documents manually if you want. Just lift the automatic document feeder and place the first sheet of your document face down on the document table, and select **Document Table** under the Document Source option in EPSON Scan. Be sure to close the automatic document feeder before scanning. If you open it while scanning, you'll get an error.

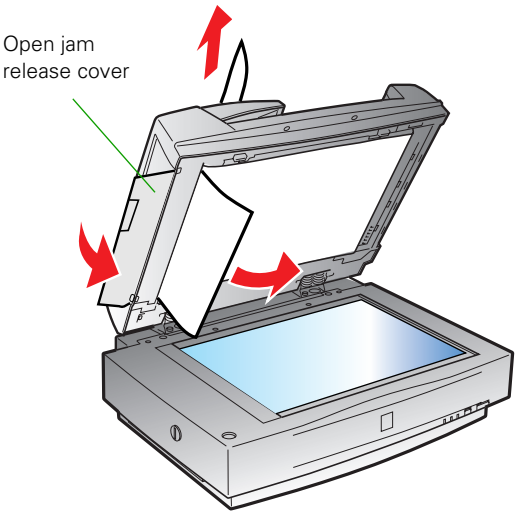
Fixing Paper Jams

If a paper jam occurs, follow these steps to clear it:

1. Open the ADF cover to determine where the paper jam occurred.



2. If paper is jammed in the feeder, open the cover on the left and slowly pull out the jammed paper as shown.



NOTE

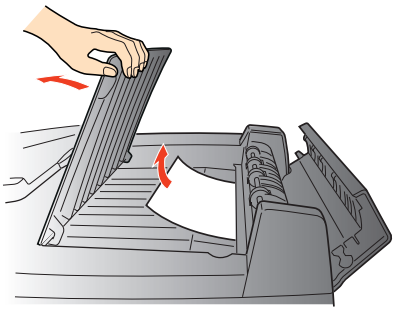
Be careful not to pull too hard or the paper may tear, making it more difficult to remove.

3. If paper jams in the paper eject position, open the cover on the right and slowly pull out the jammed paper as shown.

NOTE

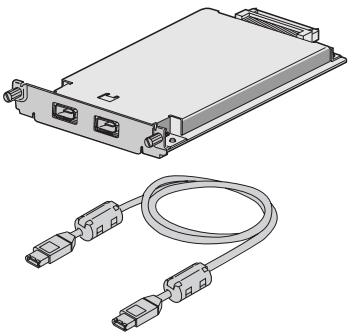
Be careful not to pull too hard or the paper may tear, making it more difficult to remove.

4. After removing the jammed paper, close the ADF cover.



IEEE 1394 FireWire Scanner Interface Card

To use the IEEE 1394 FireWire scanner interface card (B808342), your Power Macintosh must be running Macintosh OS X 10.1.4 and higher or OS 8.6 to 9.X with FireWire Update 2.1 or later. Your PC must have an OHCI-compliant FireWire port or card, and must be running a pre-installed version of Windows XP, Me, or 2000.



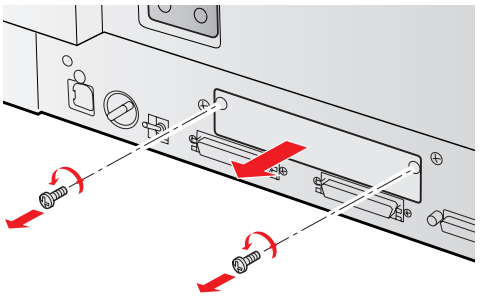
NOTE

When you install the scanner software, FireWire Update 2.1 will automatically be installed or updated, if it's not already on your Macintosh or if you have an older version.

Installing the Card in Your Scanner

Before you begin, turn off the scanner and disconnect the power cord and any cables.

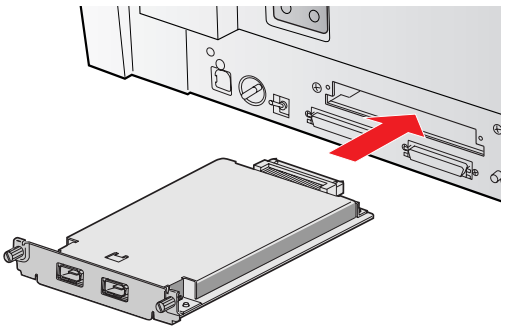
1. Remove the two screws securing the shield plate to the scanner's optional interface slot, and then remove the plate. Put the screws in a safe place in case you want to reinstall the shield plate later.



CAUTION

Static electricity can damage electronic components like the IEEE 1394 FireWire scanner interface card. To discharge static electricity, touch the scanner's metal frame before handling the card.

2. Turn the card over so that the component side is facing down, and insert it in the optional interface slot. Push gently until the card is firmly seated in the expansion slot inside the optional interface slot.
3. Tighten the retaining screws and reconnect the scanner's cables.



Now you're ready to connect the scanner to your computer. See the *Start Here* sheet for instructions.